

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-13 (canceled).

Claim 14 (new). A photocurable composition comprising:

- (a) an epoxy component containing one or more epoxy compounds with from 0 to less than 30% of the epoxy component being a glycidyl epoxy compound;
- (b) a (meth)acrylate component containing one or more multifunctional (meth)acrylates which:
 - (i) contain no hydroxyl groups; or
 - (ii) contain hydroxyl groups, but have a hydroxyl equivalent weight of 500 grams or less;
- (c) a component containing two or more hydroxyl groups;
- (d) a cationic photoinitiator; and
- (e) a free radical photoinitiator.

Claim 15 (new). The photocurable composition of claim 14 wherein the one or more multifunctional (meth)acrylates comprise a pentaerythritol (meth)acrylate.

Claim 16 (new). The photocurable composition of claim 15 wherein the pentaerythritol (meth)acrylate comprises pentaerythritol triacrylate and/or pentaerythritol tetraacrylate.

Claim 17 (new). The photocurable composition of claim 14 wherein the one or more multifunctional (meth)acrylates comprise a dipentaerythritol (meth)acrylate.

Claim 18 (new). The photocurable composition of claim 17 wherein the dipentaerythritol (meth)acrylate is dipentaerythritol hexaacrylate.

Claim 19 (new). The photocurable composition of claim 14 wherein the one or more multifunctional (meth)acrylates comprise an alkoxyated acrylate.

Claim 20 (new). The photocurable composition of claim 19 wherein the alkoxyated acrylate is trimethylolpropane ethoxylated triacrylate.

Claim 21 (new). The photocurable composition of claim 14 wherein component (c) has a molecular weight of 1500 or less.

Claim 22 (new). The photocurable composition of claim 14 wherein the composition comprises about 3 to about 10 percent by weight of component (b).

Claim 23 (new). The photocurable composition of claim 14 wherein the composition after cure has a yellow index/inch value of less than 90.

Claim 24 (new). The photocurable composition of claim 23 wherein the yellow index/inch value is less than 80.

Claim 25 (new). A photocurable composition comprising:

- (a) a cationically curable component formed from one or more epoxy compounds;
- (b) a (meth)acrylate component;
- (c) a polyol component comprising a polyether polyol;
- (d) a cationic photoinitiator; and

- (e) a free radical photoinitiator.

Claim 26 (new). The photocurable composition of claim 25 wherein the (meth)acrylate component comprises dipentaerythritol hexaacrylate.

Claim 27 (new). A photocurable composition comprising:

- (a) a cationically curable component formed from one or more epoxy compounds;
- (b) a (meth)acrylate component containing an alkoxyated acrylate;
- (c) a polyol component comprising a polyether polyol;
- (d) a cationic photoinitiator; and
- (e) a free radical photoinitiator.

Claim 28 (new). The photocurable composition of claim 27 wherein the alkoxyated acrylate is trimethylolpropane ethoxyated acrylate.

Claim 29 (new). The photocurable composition of claim 27 wherein component (b) is present at an amount of less than 20% by weight based on the total weight of the photocurable composition.

Claim 30 (new). A process for producing a three-dimensional article in sequential cross-sectional layers in accordance with a model of the article, the process comprising the steps of:

- (1) forming a first layer of the photocurable composition of claim 14;

- (2) exposing the first layer to actinic radiation in a pattern corresponding to a respective cross-sectional layer of the model sufficient to harden the first layer in the imaged area;
- (3) forming a second layer of the photocurable composition of claim 14 above the hardened first layer;
- (4) exposing the second layer to actinic radiation in a pattern corresponding to a respective cross-sectional layer of the model sufficient to harden the second layer in the imaged area; and
- (5) repeating steps (3)-(4) to form successive layers to form the three-dimensional article.

Claim 31 (new). A process for forming a three-dimensional article in sequential cross-sectional layers in accordance with a model of the article, the process comprising the steps of: depositing droplets of the photocurable composition of claim 14 onto a substrate in a pattern corresponding to a cross-sectional layer of the model so that adjacent droplets merge together; repeating this step to form successive layers; and applying actinic radiation to cure the photocurable composition of claim 14, pixel-by-pixel, line-by-line, layer-by-layer, after several layers have been formed and/or after all the layers have been formed to form the three-dimensional article.

Claim 32 (new). A three-dimensional article produced according to the process of claim 30.

Claim 33 (new). A three-dimensional article produced according to the process of claim 31.